

# Adarsh Alex

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<b>OBJECTIVE</b>	Seeking to leverage my experience and skills in Software Engineering to develop big data analytics and scalable applications.
<b>EDUCATION</b>	<p><b>Wright State University</b>, Dayton, Ohio, USA</p> <p>Master of Science (M.S.) in Computer Science Aug 2013 – Jul 2016 (Expected)</p> <ul style="list-style-type: none"><li>▪ Research areas: Exploiting knowledge encoded in Knowledge Graphs to enhance Text Mining, Natural Language Processing and Applied Machine Learning</li><li>▪ Thesis: Detecting and Classifying Implicit Entity Mentions in Tweets</li><li>▪ Advisor: Dr. Amit P. Sheth</li><li>▪ GPA: 3.5/4.00</li></ul> <p><b>Mumbai University</b>, Mumbai, Maharashtra, India</p> <p>Bachelor of Engineering (B.E.) in Computer Engineering Aug 2009 – May 2013</p>
<b>SKILLS</b>	<ul style="list-style-type: none"><li>▪ <b>Programming Languages:</b> Java, Python, C, C++.</li><li>▪ <b>Databases:</b> MySQL, MongoDB, Neo4j.</li><li>▪ <b>Big Data Technologies:</b> Apache Hadoop(Mapreduce), Apache Storm.</li><li>▪ <b>Semantic Technologies:</b> RDF, SPARQL, OWL.</li><li>▪ <b>Web Technologies:</b> HTML, CSS, Javascript.</li><li>▪ <b>Tools and Software:</b> NLTK, Stanford CoreNLP, Gensim, OpenNLP, Weka, word2vec, git, svn.</li><li>▪ <b>Operating Systems:</b> Linux, Windows, Mac.</li></ul>
<b>EXPERIENCE</b>	<p><b>Kno.e.sis Center</b>, Wright State University</p> <p>Graduate Research Assistant, Computer Science Department Aug 2014 – Current</p> <ul style="list-style-type: none"><li>▪ Identifying and linking Implicit Entity Mentions in Tweets and Electronic Medical Records (EMR) using background knowledge.</li><li>▪ Leveraged machine learning techniques for filtering out noisy tweets in real time.</li></ul> <p><b>ezDI, LLC</b>, Ahmedabad, Gujarat, India</p> <p>Research Intern May 2014 – Aug 2014</p> <ul style="list-style-type: none"><li>▪ Explored and developed approaches for automatic knowledge acquisition from Electronic Medical Record's to enhance knowledge graphs using semantic techniques and domain knowledge.</li></ul>
<b>PROJECTS</b>	<p><b>Detecting and Classifying Implicit Entities in Tweets</b> Mar 2015 – Current</p> <ul style="list-style-type: none"><li>▪ Developed a solution that leverages background knowledge from crowd-sourced knowledge bases like Wikipedia and DBpedia to identify implicit entity mentions in unstructured text (Tweets) in real time.</li></ul> <p><b>Real Time Tweet Filtering</b> Aug 2014 – Dec 2014</p> <ul style="list-style-type: none"><li>▪ Implemented an analysis pipeline engine for streaming data (Tweets) using Twitter Streaming API, Apache Storm and Mongo DB.</li><li>▪ Also developed a framework for real time noise filtering and feedback learning using Apache Storm and Weka.</li></ul> <p><b>eDrugTrends</b> Aug 2014 – Jul 2015</p> <ul style="list-style-type: none"><li>▪ eDrugTrends is an inter-disciplinary project developed to monitor cannabis and synthetic cannabinoid use.</li><li>My Work: Developed and extended an ontology to capture all the relationships between cannabinoids and synthetic cannabinoids using Protege.</li></ul> <p><b>Knowledge Acquisition from EMR Documents</b> May 2014 – Aug 2014</p> <ul style="list-style-type: none"><li>▪ Developed an approach for automatic knowledge acquisition from Electronic Medical Record's using Java, Virtuoso and Neo4j to enhance knowledge graph by leveraging domain knowledge and applying semantic techniques.</li></ul>

## PUBLICATIONS

- Adarsh Alex, Sujan Perera, Amit Sheth “**Detecting and Classifying Implicit Entity Mentions in Tweets**” *Technical Report* [Work in Progress].
- Sujan Perera, Pablo N. Mendes, Amit P. Sheth, Krishnaprasad Thirunarayan, Adarsh Alex, Christopher Heid, Greg Mott “**Implicit Entity Recognition in Clinical Documents**,” *In proceedings of The Fourth Joint Conference on Lexical and Computational Semantics (\*SEM)*, Jun 2015.
- Sujan Perera, Pablo N. Mendes, Adarsh Alex, Amit P. Sheth, Krishnaprasad Thirunarayan “**Implicit Entity Linking in Tweets**,” *In Extended Semantic Web Conference (ESWC)*, May 2016.